Elation

Proteus Rayzor 760 OPS



Manufacturer	**Elation**
Type	**Moving head**
DMX modes	**7**
DMX footprint	**1, 23, 52 channels**
Beam angle	**2-40°**
Pan range	**540°**
Tilt range	**360°**
Heads / cells	**2**
Size (W × H × D)	**285 × 210 × 274 mm**
GDTF fixture type	**2544E917-B881-4D08-B81E-F5…**

Controls

Zoom · Colour temperature · Colour wheel · Strobe · Dimmer · Pixel control · Pan and tilt · Movement speed

Safety-relevant functions

Strobe · Built-in effect programmes

DMX modes

SparkLED	1 ch
Standard 360Pan/Tilt	23 ch
Standard 540Pan/270Tilt	23 ch
Extended 360Pan/Tilt	52 ch
Extended 540Pan/270Tilt	52 ch
Pixels 360Pan/Tilt	52 ch
Pixels 540Pan/270Tilt	52 ch

SparkLED

1 channel

Ch	Function	Default	DMX values
1	Dimmer	0	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %

Standard 360Pan/Tilt

23 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	255	Fine byte of Tilt
5	Pan Rotate	0	0–2 Disable 3–64 CW Fast 65–125 CW Med 126–126 CW Slow 127–129 Rot Stop 130–191 CCW Slow 192–252 CCW Med 253–254 CCW Fast 255–255 Rot Stop
6	Tilt Rotate	0	0–2 Disable 3–126 CW Fast to Slow 127–129 No Rot 130–253 CCW Slow to Fast 254–255 No Rot
7	C TO	0	

Standard 360Pan/Tilt (continued)

Ch	Function	Default	DMX values
8	Color Wheel	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Red Orange (wheel slot 3) 20–24 Light Amber (wheel slot 4) 25–29 Yellow Amber (wheel slot 5) 30–34 Greenish Yellow (wheel slot 6) 35–39 Light Yellow Green (wheel slot 7) 40–44 Dark Yellow Green (wheel slot 8) 45–49 Green (wheel slot 9) 50–54 Teal (wheel slot 10) 55–59 Cyan (wheel slot 11) 60–64 Light Blue (wheel slot 12) 65–69 Aqua (wheel slot 13) 70–74 Dark Aqua (wheel slot 14) 75–79 Green Blue (wheel slot 15) 80–84 Light Lavender (wheel slot 16) 85–89 Dark Purple (wheel slot 17) 90–94 Medium Purple (wheel slot 18) 95–99 Mid Rose (wheel slot 19) 100–104 Muave (wheel slot 20) 105–109 Nice Magenta (wheel slot 21) 110–114 Warm Magenta (wheel slot 22) 115–119 Light Red (wheel slot 23) 120–124 Straw (wheel slot 24) 125–129 Dark CTB (wheel slot 25) 130–134 Light Green (wheel slot 26) 135–139 Purple (wheel slot 27) 140–144 Lighter Purple (wheel slot 28) 145–149 Pink (wheel slot 29) 150–154 Rose (wheel slot 30) 155–159 White (wheel slot 31) 160–174 Not in Use (wheel slot 1) 175–179 Open (wheel slot 1) 180–201 CW Fast to Slow 202–207 Stop 208–229 CCW Slow to Fast 230–234 Open (wheel slot 1) 235–239 Random Fast 240–244 Random Med 245–249 Random Slow 250–255 Open (wheel slot 1)
9	Shutter / Strobe	63	0–31 Shutter CLOSED 32–63 NO Function (Shutter OPEN) 64–95 Strobe Effect SLOW to FAST 96–127 NO Function (Shutter OPEN) 128–159 Pulse Effect In Sequences 160–191 NO Function (Shutter OPEN) 192–223 Random Strobe Effect SLOW to FAST 224–255 NO Function (Shutter OPEN)
10	Dimmer	0	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
11	Dimmer Fine	0	Fine byte of Dimmer

Standard 360Pan/Tilt (continued)

Ch	Function	Default	DMX values
12	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectual 81–100 Theater 101–120 Stage 2 121–121 0s 122–122 0_1s 123–123 0_2s 124–124 0_3s 125–125 0_4s 126–126 0_5s 127–127 0_6s 128–128 0_7s 129–129 0_8s 130–130 0_9s 131–131 1s 132–132 1_5s 133–133 2s 134–134 3s 135–135 4s 136–136 5s 137–137 6s 138–138 7s 139–139 8s 140–140 9s 141–141 10s 142–255 Idle
13	Zoom	107	0–214 Wide 215–215 Narrow 216–254 Overdrive Min 255–255 Overdrive Max
14	Control1	0	
15	Color Macro1	0	
16	Color Macro1Rate	0	0–56 CW Fast 57–125 CW Med 126–126 CW Slow 127–128 Stop 129–184 CCW Slow 185–254 CCW Med 255–255 CCW Fast
17	Color Macro2	0	
18	Color Macro2Rate	0	0–56 CW Fast 57–125 CW Med 126–126 CW Slow 127–128 Stop 129–184 CCW Slow 185–254 CCW Med 255–255 CCW Fast

Standard 360Pan/Tilt (continued)

Ch	Function	Default	DMX values
19	Effect	0	1–1 10 Degrees Offset 2–2 20 Degrees Offset 3–3 30 Degrees Offset 4–4 40 Degrees Offset 5–5 50 Degrees Offset 6–6 60 Degrees Offset 7–7 70 Degrees Offset 8–8 80 Degrees Offset 9–9 90 Degrees Offset 10–10 100 Degrees Offset 11–11 110 Degrees Offset 12–12 120 Degrees Offset 13–13 130 Degrees Offset 14–14 140 Degrees Offset 15–15 150 Degrees Offset 16–16 160 Degrees Offset 17–17 170 Degrees Offset 18–18 180 Degrees Offset 19–19 190 Degrees Offset 20–20 200 Degrees Offset 21–21 210 Degrees Offset 22–22 220 Degrees Offset 23–23 230 Degrees Offset 24–24 240 Degrees Offset 25–25 250 Degrees Offset 26–26 260 Degrees Offset 27–27 270 Degrees Offset 28–28 280 Degrees Offset 29–29 290 Degrees Offset 30–30 300 Degrees Offset 31–31 310 Degrees Offset 32–32 320 Degrees Offset 33–33 330 Degrees Offset 34–34 340 Degrees Offset 35–35 350 Degrees Offset 36–100 Synchronized 101–120 Random Fixtures 121–140 Random Duration 141–255 Random Pixels
20	Red	255	
21	Green	255	
22	Blue	255	
23	White	255	

Standard 540Pan/270Tilt

23 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	127	0–126 Mix 127–254 Center 255–255 Max
4	Tilt Fine	255	Fine byte of Tilt
5	Pan Rotate	0	0–2 Disable 3–126 CW Fast to Slow 127–129 No Rot 130–253 CCW Slow to Fast 254–255 No Rot

Standard 540Pan/270Tilt (continued)

Ch	Function	Default	DMX values
6	Tilt Rotate	0	0–2 Disable 3–126 CW Fast to Slow 127–129 No Rot 130–253 CCW Slow to Fast 254–255 No Rot
7	C TO	0	
8	Color Wheel	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Red Orange (wheel slot 3) 20–24 Light Amber (wheel slot 4) 25–29 Yellow Amber (wheel slot 5) 30–34 Greenish Yellow (wheel slot 6) 35–39 Light Yellow Green (wheel slot 7) 40–44 Dark Yellow Green (wheel slot 8) 45–49 Green (wheel slot 9) 50–54 Teal (wheel slot 10) 55–59 Cyan (wheel slot 11) 60–64 Light Blue (wheel slot 12) 65–69 Aqua (wheel slot 13) 70–74 Dark Aqua (wheel slot 14) 75–79 Green Blue (wheel slot 15) 80–84 Light Lavender (wheel slot 16) 85–89 Dark Purple (wheel slot 17) 90–94 Medium Purple (wheel slot 18) 95–99 Mid Rose (wheel slot 19) 100–104 Muave (wheel slot 20) 105–109 Nice Magenta (wheel slot 21) 110–114 Warm Magenta (wheel slot 22) 115–119 Light Red (wheel slot 23) 120–124 Straw (wheel slot 24) 125–129 Dark CTB (wheel slot 25) 130–134 Light Green (wheel slot 26) 135–139 Purple (wheel slot 27) 140–144 Lighter Purple (wheel slot 28) 145–149 Pink (wheel slot 29) 150–154 Rose (wheel slot 30) 155–179 White (wheel slot 31) 180–189 CW Fast 190–200 CW Med 201–203 CW Slow 204–207 Rot Stop 208–218 CCW Slow 219–228 CCW Med 229–229 CCW Fast 230–234 Open (wheel slot 1) 235–239 Random Fast 240–244 Random Med 245–249 Random Slow 250–255 Open (wheel slot 1)
9	Shutter / Strobe	63	0–31 Shutter CLOSED 32–63 NO Function (Shutter OPEN) 64–95 Strobe Effect SLOW to FAST 96–127 NO Function (Shutter OPEN) 128–159 Pulse Effect In Sequences 160–191 NO Function (Shutter OPEN) 192–223 Random Strobe Effect SLOW to FAST 224–255 NO Function (Shutter OPEN)

Standard 540Pan/270Tilt (continued)

Ch	Function	Default	DMX values
10	Dimmer	0	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
11	Dimmer Fine	0	Fine byte of Dimmer
12	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectual 81–100 Theater 101–120 Stage 2 121–121 0s 122–122 0_1s 123–123 0_2s 124–124 0_3s 125–125 0_4s 126–126 0_5s 127–127 0_6s 128–128 0_7s 129–129 0_8s 130–130 0_9s 131–131 1s 132–132 1_5s 133–133 2s 134–134 3s 135–135 4s 136–136 5s 137–137 6s 138–138 7s 139–139 8s 140–140 9s 141–141 10s 142–255 Idle
13	Zoom	107	0–214 Wide 215–215 Narrow 216–254 Overdrive Min 255–255 Overdrive Max
14	Control1	0	
15	Color Macro1	0	
16	Color Macro1Rate	0	0–56 CW Fast 57–125 CW Med 126–126 CW Slow 127–128 Stop 129–184 CCW Slow 185–254 CCW Med 255–255 CCW Fast
17	Color Macro2	0	
18	Color Macro2Rate	0	0–56 CW Fast 57–125 CW Med 126–126 CW Slow 127–128 Stop 129–184 CCW Slow 185–254 CCW Med 255–255 CCW Fast

Standard 540Pan/270Tilt (continued)

Ch	Function	Default	DMX values
19	Effect	0	1–1 10 Degrees Offset 2–2 20 Degrees Offset 3–3 30 Degrees Offset 4–4 40 Degrees Offset 5–5 50 Degrees Offset 6–6 60 Degrees Offset 7–7 70 Degrees Offset 8–8 80 Degrees Offset 9–9 90 Degrees Offset 10–10 100 Degrees Offset 11–11 110 Degrees Offset 12–12 120 Degrees Offset 13–13 130 Degrees Offset 14–14 140 Degrees Offset 15–15 150 Degrees Offset 16–16 160 Degrees Offset 17–17 170 Degrees Offset 18–18 180 Degrees Offset 19–19 190 Degrees Offset 20–20 200 Degrees Offset 21–21 210 Degrees Offset 22–22 220 Degrees Offset 23–23 230 Degrees Offset 24–24 240 Degrees Offset 25–25 250 Degrees Offset 26–26 260 Degrees Offset 27–27 270 Degrees Offset 28–28 280 Degrees Offset 29–29 290 Degrees Offset 30–30 300 Degrees Offset 31–31 310 Degrees Offset 32–32 320 Degrees Offset 33–33 330 Degrees Offset 34–34 340 Degrees Offset 35–35 350 Degrees Offset 36–100 Synchronized 101–120 Random Fixtures 121–140 Random Duration 141–255 Random Pixels
20	Red	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
21	Green	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
22	Blue	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
23	White	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %

Extended 360Pan/Tilt

52 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	255	Fine byte of Tilt
5	Pan Rotate	0	0–2 Disable 3–126 CW Fast to Slow 127–129 No Rot 130–253 CCW Slow to Fast 254–255 No Rot
6	Tilt Rotate	0	0–2 Disable 3–126 CW Fast to Slow 127–129 No Rot 130–253 CCW Slow to Fast 254–255 No Rot
7	C TO	0	
8	Color Wheel	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Red Orange (wheel slot 3) 20–24 Light Amber (wheel slot 4) 25–29 Yellow Amber (wheel slot 5) 30–34 Greenish Yellow (wheel slot 6) 35–39 Light Yellow Green (wheel slot 7) 40–44 Dark Yellow Green (wheel slot 8) 45–49 Green (wheel slot 9) 50–54 Teal (wheel slot 10) 55–59 Cyan (wheel slot 11) 60–64 Light Blue (wheel slot 12) 65–69 Aqua (wheel slot 13) 70–74 Dark Aqua (wheel slot 14) 75–79 Green Blue (wheel slot 15) 80–84 Light Lavender (wheel slot 16) 85–89 Dark Purple (wheel slot 17) 90–94 Medium Purple (wheel slot 18) 95–99 Mid Rose (wheel slot 19) 100–104 Muave (wheel slot 20) 105–109 Nice Magenta (wheel slot 21) 110–114 Warm Magenta (wheel slot 22) 115–119 Light Red (wheel slot 23) 120–124 Straw (wheel slot 24) 125–129 Dark CTB (wheel slot 25) 130–134 Light Green (wheel slot 26) 135–139 Purple (wheel slot 27) 140–144 Lighter Purple (wheel slot 28) 145–149 Pink (wheel slot 29) 150–154 Rose (wheel slot 30) 155–159 White (wheel slot 31) 160–174 Not in Use (wheel slot 1) 175–179 Open (wheel slot 1) 180–201 CW Fast to Slow 202–207 Stop 208–229 CCW Slow to Fast 230–234 Open (wheel slot 1) 235–239 Random Fast 240–244 Random Med 245–249 Random Slow 250–255 Open (wheel slot 1)

Extended 360Pan/Tilt (continued)

Ch	Function	Default	DMX values
9	Shutter / Strobe	63	0–31 Shutter CLOSED 32–63 NO Function (Shutter OPEN) 64–95 Strobe Effect SLOW to FAST 96–127 NO Function (Shutter OPEN) 128–159 Pulse Effect In Sequences 160–191 NO Function (Shutter OPEN) 192–223 Random Strobe Effect SLOW to FAST 224–255 NO Function (Shutter OPEN)
10	Dimmer	0	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
11	Dimmer Fine	0	Fine byte of Dimmer
12	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectual 81–100 Theater 101–120 Stage 2 121–121 0s 122–122 0_1s 123–123 0_2s 124–124 0_3s 125–125 0_4s 126–126 0_5s 127–127 0_6s 128–128 0_7s 129–129 0_8s 130–130 0_9s 131–131 1s 132–132 1_5s 133–133 2s 134–134 3s 135–135 4s 136–136 5s 137–137 6s 138–138 7s 139–139 8s 140–140 9s 141–141 10s 142–255 Idle
13	Zoom	107	0–215 Wide 216–254 Narrow 255–255 Overdrive Max
14	Zoom Fine	132	Fine byte of Zoom
15	Position MSpeed	0	0–224 Max 225–225 Min 226–235 Blackout P/T Move 236–255 Blackout All Wheel Change
16	Control1	0	
17	Color Macro1	0	
18	Color Macro1Rate	0	0–56 CW Fast 57–125 CW Med 126–126 CW Slow 127–128 Stop 129–184 CCW Slow 185–254 CCW Med 255–255 CCW Fast

Extended 360Pan/Tilt (continued)

Ch	Function	Default	DMX values
19	Color Macro2	0	
20	Color Macro2Rate	0	0–56 CW Fast 57–125 CW Med 126–126 CW Slow 127–128 Stop 129–184 CCW Slow 185–254 CCW Med 255–255 CCW Fast
21	Effect	0	1–1 10 Degrees Offset 2–2 20 Degrees Offset 3–3 30 Degrees Offset 4–4 40 Degrees Offset 5–5 50 Degrees Offset 6–6 60 Degrees Offset 7–7 70 Degrees Offset 8–8 80 Degrees Offset 9–9 90 Degrees Offset 10–10 100 Degrees Offset 11–11 110 Degrees Offset 12–12 120 Degrees Offset 13–13 130 Degrees Offset 14–14 140 Degrees Offset 15–15 150 Degrees Offset 16–16 160 Degrees Offset 17–17 170 Degrees Offset 18–18 180 Degrees Offset 19–19 190 Degrees Offset 20–20 200 Degrees Offset 21–21 210 Degrees Offset 22–22 220 Degrees Offset 23–23 230 Degrees Offset 24–24 240 Degrees Offset 25–25 250 Degrees Offset 26–26 260 Degrees Offset 27–27 270 Degrees Offset 28–28 280 Degrees Offset 29–29 290 Degrees Offset 30–30 300 Degrees Offset 31–31 310 Degrees Offset 32–32 320 Degrees Offset 33–33 330 Degrees Offset 34–34 340 Degrees Offset 35–35 350 Degrees Offset 36–100 Synchronized 101–120 Random Fixtures 121–140 Random Duration 141–255 Random Pixels
22	Reserved 22	0	
23	Reserved 23	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Reserved 27	0	
28	Reserved 28	0	
29	Reserved 29	0	
30	Reserved 30	0	
31	Reserved 31	0	
32	Reserved 32	0	

Extended 360Pan/Tilt (continued)

Ch	Function	Default	DMX values
33	Reserved 33	0	
34	Reserved 34	0	
35	Reserved 35	0	
36	Reserved 36	0	
37	Reserved 37	0	
38	Reserved 38	0	
39	Reserved 39	0	
40	Reserved 40	0	
41	Reserved 41	0	
42	Reserved 42	0	
43	Reserved 43	0	
44	Reserved 44	0	
45	Reserved 45	0	
46	Reserved 46	0	
47	Reserved 47	0	
48	Reserved 48	0	
49	Reserved 49	0	
50	Shutter / Strobe	63	0–31 Shutter CLOSED SPARKLED 32–63 NO Function (Shutter OPEN) SPARKLED 64–95 Strobe Effect SLOW to FAST SPARKLED 96–127 NO Function (Shutter OPEN) SPARKLED 128–159 Pulse Slow to Fast SPARKLED 160–191 NO Function (Shutter OPEN) SPARKLED 192–223 Rnd strob SLOW to FAST SPARKLED 224–255 NO Function (Shutter OPEN) SPARKLED
51	Dimmer	255	0–62 0 % SPARKLED Strob 63–126 25 % SPARKLED Strob 127–190 50 % SPARKLED Strob 191–254 75 % SPARKLED Strob 255–255 100 % SPARKLED Strob
52	Dimmer Fine	255	Fine byte of Dimmer

Extended 540Pan/270Tilt

52 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	255	Fine byte of Tilt
5	Pan Rotate	0	0–2 Disable 3–126 CW Fast to Slow 127–129 No Rot 130–253 CCW Slow to Fast 254–255 No Rot
6	Tilt Rotate	0	0–2 Disable 3–126 CW Fast to Slow 127–129 No Rot 130–253 CCW Slow to Fast 254–255 No Rot
7	C TO	0	

Extended 540Pan/270Tilt (continued)

Ch	Function	Default	DMX values
8	Color Wheel	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Red Orange (wheel slot 3) 20–24 Light Amber (wheel slot 4) 25–29 Yellow Amber (wheel slot 5) 30–34 Greenish Yellow (wheel slot 6) 35–39 Light Yellow Green (wheel slot 7) 40–44 Dark Yellow Green (wheel slot 8) 45–49 Green (wheel slot 9) 50–54 Teal (wheel slot 10) 55–59 Cyan (wheel slot 11) 60–64 Light Blue (wheel slot 12) 65–69 Aqua (wheel slot 13) 70–74 Dark Aqua (wheel slot 14) 75–79 Green Blue (wheel slot 15) 80–84 Light Lavender (wheel slot 16) 85–89 Dark Purple (wheel slot 17) 90–94 Medium Purple (wheel slot 18) 95–99 Mid Rose (wheel slot 19) 100–104 Muave (wheel slot 20) 105–109 Nice Magenta (wheel slot 21) 110–114 Warm Magenta (wheel slot 22) 115–119 Light Red (wheel slot 23) 120–124 Straw (wheel slot 24) 125–129 Dark CTB (wheel slot 25) 130–134 Light Green (wheel slot 26) 135–139 Purple (wheel slot 27) 140–144 Lighter Purple (wheel slot 28) 145–149 Pink (wheel slot 29) 150–154 Rose (wheel slot 30) 155–159 White (wheel slot 31) 160–174 Not in Use (wheel slot 1) 175–179 Open (wheel slot 1) 180–201 CW Fast to Slow 202–207 Stop 208–229 CCW Slow to Fast 230–234 Open (wheel slot 1) 235–239 Random Fast 240–244 Random Med 245–249 Random Slow 250–255 Open (wheel slot 1)
9	Shutter / Strobe	63	0–31 Shutter CLOSED 32–63 NO Function (Shutter OPEN) 64–95 Strobe Effect SLOW to FAST 96–127 NO Function (Shutter OPEN) 128–159 Pulse Effect In Sequences 160–191 NO Function (Shutter OPEN) 192–223 Random Strobe Effect SLOW to FAST 224–255 NO Function (Shutter OPEN)
10	Dimmer	0	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
11	Dimmer Fine	0	Fine byte of Dimmer

Extended 540Pan/270Tilt (continued)

Ch	Function	Default	DMX values
12	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectual 81–100 Theater 101–120 Stage 2 121–121 0s 122–122 0_1s 123–123 0_2s 124–124 0_3s 125–125 0_4s 126–126 0_5s 127–127 0_6s 128–128 0_7s 129–129 0_8s 130–130 0_9s 131–131 1s 132–132 1_5s 133–133 2s 134–134 3s 135–135 4s 136–136 5s 137–137 6s 138–138 7s 139–139 8s 140–140 9s 141–141 10s 142–255 Idle
13	Zoom	107	0–215 Wide 216–254 Narrow 255–255 Overdrive Max
14	Zoom Fine	132	Fine byte of Zoom
15	Position MSpeed	0	0–224 Max 225–225 Min 226–235 Blackout P/T Move 236–255 Blackout All Wheel Change
16	Control1	0	
17	Color Macro1	0	
18	Color Macro1Rate	0	0–56 CW Fast 57–125 CW Med 126–126 CW Slow 127–128 Stop 129–184 CCW Slow 185–254 CCW Med 255–255 CCW Fast
19	Color Macro2	0	
20	Color Macro2Rate	0	0–56 CW Fast 57–125 CW Med 126–126 CW Slow 127–128 Stop 129–184 CCW Slow 185–254 CCW Med 255–255 CCW Fast

Extended 540Pan/270Tilt (continued)

Ch	Function	Default	DMX values
21	Effect	0	1–1 10 Degrees Offset 2–2 20 Degrees Offset 3–3 30 Degrees Offset 4–4 40 Degrees Offset 5–5 50 Degrees Offset 6–6 60 Degrees Offset 7–7 70 Degrees Offset 8–8 80 Degrees Offset 9–9 90 Degrees Offset 10–10 100 Degrees Offset 11–11 110 Degrees Offset 12–12 120 Degrees Offset 13–13 130 Degrees Offset 14–14 140 Degrees Offset 15–15 150 Degrees Offset 16–16 160 Degrees Offset 17–17 170 Degrees Offset 18–18 180 Degrees Offset 19–19 190 Degrees Offset 20–20 200 Degrees Offset 21–21 210 Degrees Offset 22–22 220 Degrees Offset 23–23 230 Degrees Offset 24–24 240 Degrees Offset 25–25 250 Degrees Offset 26–26 260 Degrees Offset 27–27 270 Degrees Offset 28–28 280 Degrees Offset 29–29 290 Degrees Offset 30–30 300 Degrees Offset 31–31 310 Degrees Offset 32–32 320 Degrees Offset 33–33 330 Degrees Offset 34–34 340 Degrees Offset 35–35 350 Degrees Offset 36–100 Synchronized 101–120 Random Fixtures 121–140 Random Duration 141–255 Random Pixels
22	Reserved 22	0	
23	Reserved 23	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Reserved 27	0	
28	Reserved 28	0	
29	Reserved 29	0	
30	Reserved 30	0	
31	Reserved 31	0	
32	Reserved 32	0	
33	Reserved 33	0	
34	Reserved 34	0	
35	Reserved 35	0	
36	Reserved 36	0	
37	Reserved 37	0	
38	Reserved 38	0	

Extended 540Pan/270Tilt (continued)

Ch	Function	Default	DMX values
39	Reserved 39	0	
40	Reserved 40	0	
41	Reserved 41	0	
42	Reserved 42	0	
43	Reserved 43	0	
44	Reserved 44	0	
45	Reserved 45	0	
46	Reserved 46	0	
47	Reserved 47	0	
48	Reserved 48	0	
49	Reserved 49	0	
50	Shutter / Strobe	63	0–31 Shutter CLOSED SPARKLED 32–63 NO Function (Shutter OPEN) SPARKLED 64–95 Strobe Effect SLOW to FAST SPARKLED 96–127 NO Function (Shutter OPEN) SPARKLED 128–159 Pulse Slow to Fast SPARKLED 160–191 NO Function (Shutter OPEN) SPARKLED 192–223 Rnd strob SLOW to FAST SPARKLED 224–255 NO Function (Shutter OPEN) SPARKLED
51	Dimmer	255	0–62 0 % SparkLED 63–126 25 % SparkLED 127–190 50 % SparkLED 191–254 75 % SparkLED 255–255 100 % SparkLED
52	Dimmer Fine	255	Fine byte of Dimmer

Pixels 360Pan/Tilt

52 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	255	Fine byte of Tilt
5	Pan Rotate	0	0–2 Disable 3–126 CW Fast to Slow 127–129 No Rot 130–253 CCW Slow to Fast 254–255 No Rot
6	Tilt Rotate	0	0–2 Disable 3–126 CW Fast to Slow 127–129 No Rot 130–253 CCW Slow to Fast 254–255 No Rot
7	C TO	0	

Pixels 360Pan/Tilt (continued)

Ch	Function	Default	DMX values
8	Color Wheel	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Red Orange (wheel slot 3) 20–24 Light Amber (wheel slot 4) 25–29 Yellow Amber (wheel slot 5) 30–34 Greenish Yellow (wheel slot 6) 35–39 Light Yellow Green (wheel slot 7) 40–44 Dark Yellow Green (wheel slot 8) 45–49 Green (wheel slot 9) 50–54 Teal (wheel slot 10) 55–59 Cyan (wheel slot 11) 60–64 Light Blue (wheel slot 12) 65–69 Aqua (wheel slot 13) 70–74 Dark Aqua (wheel slot 14) 75–79 Green Blue (wheel slot 15) 80–84 Light Lavender (wheel slot 16) 85–89 Dark Purple (wheel slot 17) 90–94 Medium Purple (wheel slot 18) 95–99 Mid Rose (wheel slot 19) 100–104 Muave (wheel slot 20) 105–109 Nice Magenta (wheel slot 21) 110–114 Warm Magenta (wheel slot 22) 115–119 Light Red (wheel slot 23) 120–124 Straw (wheel slot 24) 125–129 Dark CTB (wheel slot 25) 130–134 Light Green (wheel slot 26) 135–139 Purple (wheel slot 27) 140–144 Lighter Purple (wheel slot 28) 145–149 Pink (wheel slot 29) 150–154 Rose (wheel slot 30) 155–159 White (wheel slot 31) 160–174 Not in Use (wheel slot 1) 175–179 Open (wheel slot 1) 180–201 CW Fast to Slow 202–207 Stop 208–229 CCW Slow to Fast 230–234 Open (wheel slot 1) 235–239 Random Fast 240–244 Random Med 245–249 Random Slow 250–255 Open (wheel slot 1)
9	Shutter / Strobe	63	0–31 Shutter CLOSED 32–63 NO Function (Shutter OPEN) 64–95 Strobe Effect SLOW to FAST 96–127 NO Function (Shutter OPEN) 128–159 Pulse Effect In Sequences 160–191 NO Function (Shutter OPEN) 192–223 Random Strobe Effect SLOW to FAST 224–255 NO Function (Shutter OPEN)
10	Dimmer	0	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
11	Dimmer Fine	0	Fine byte of Dimmer

Pixels 360Pan/Tilt (continued)

Ch	Function	Default	DMX values
12	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectual 81–100 Theater 101–120 Stage 2 121–121 0s 122–122 0_1s 123–123 0_2s 124–124 0_3s 125–125 0_4s 126–126 0_5s 127–127 0_6s 128–128 0_7s 129–129 0_8s 130–130 0_9s 131–131 1s 132–132 1_5s 133–133 2s 134–134 3s 135–135 4s 136–136 5s 137–137 6s 138–138 7s 139–139 8s 140–140 9s 141–254 10s 255–255 Idle
13	Zoom	107	0–215 Wide 216–254 Narrow 255–255 Overdrive Max
14	Zoom Fine	132	Fine byte of Zoom
15	Position MSpeed	0	0–224 Max 225–225 Min 226–235 Blackout P/T Move 236–255 Blackout All Wheel Change
16	Control1	0	
17	Color Macro1	0	
18	Color Macro1Rate	0	0–56 CW Fast 57–125 CW Med 126–126 CW Slow 127–128 Stop 129–184 CCW Slow 185–254 CCW Med 255–255 CCW Fast
19	Color Macro2	0	
20	Color Macro2Rate	0	0–56 CW Fast 57–125 CW Med 126–126 CW Slow 127–128 Stop 129–184 CCW Slow 185–254 CCW Med 255–255 CCW Fast

Pixels 360Pan/Tilt (continued)

Ch	Function	Default	DMX values
21	Effect	0	1–1 10 Degrees Offset 2–2 20 Degrees Offset 3–3 30 Degrees Offset 4–4 40 Degrees Offset 5–5 50 Degrees Offset 6–6 60 Degrees Offset 7–7 70 Degrees Offset 8–8 80 Degrees Offset 9–9 90 Degrees Offset 10–10 100 Degrees Offset 11–11 110 Degrees Offset 12–12 120 Degrees Offset 13–13 130 Degrees Offset 14–14 140 Degrees Offset 15–15 150 Degrees Offset 16–16 160 Degrees Offset 17–17 170 Degrees Offset 18–18 180 Degrees Offset 19–19 190 Degrees Offset 20–20 200 Degrees Offset 21–21 210 Degrees Offset 22–22 220 Degrees Offset 23–23 230 Degrees Offset 24–24 240 Degrees Offset 25–25 250 Degrees Offset 26–26 260 Degrees Offset 27–27 270 Degrees Offset 28–28 280 Degrees Offset 29–29 290 Degrees Offset 30–30 300 Degrees Offset 31–31 310 Degrees Offset 32–32 320 Degrees Offset 33–33 330 Degrees Offset 34–34 340 Degrees Offset 35–35 350 Degrees Offset 36–100 Synchronized 101–120 Random Fixtures 121–140 Random Duration 141–255 Random Pixels
22	Reserved 22	0	
23	Reserved 23	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Reserved 27	0	
28	Reserved 28	0	
29	Reserved 29	0	
30	Reserved 30	0	
31	Reserved 31	0	
32	Reserved 32	0	
33	Reserved 33	0	
34	Reserved 34	0	
35	Reserved 35	0	
36	Reserved 36	0	
37	Reserved 37	0	
38	Reserved 38	0	

Pixels 360Pan/Tilt (continued)

Ch	Function	Default	DMX values
39	Reserved 39	0	
40	Reserved 40	0	
41	Reserved 41	0	
42	Reserved 42	0	
43	Reserved 43	0	
44	Reserved 44	0	
45	Reserved 45	0	
46	Reserved 46	0	
47	Reserved 47	0	
48	Reserved 48	0	
49	Reserved 49	0	
50	Shutter / Strobe	63	0–31 Shutter CLOSED SPARKLED 32–63 NO Function (Shutter OPEN) SPARKLED 64–95 Strobe Effect SLOW to FAST SPARKLED 96–127 NO Function (Shutter OPEN) SPARKLED 128–159 Pulse Slow to Fast SPARKLED 160–191 NO Function (Shutter OPEN) SPARKLED 192–223 Rnd strob SLOW to FAST SPARKLED 224–255 NO Function (Shutter OPEN) SPARKLED
51	Dimmer	0	0–254 Closed 255–255 Open
52	Dimmer Fine	0	Fine byte of Dimmer

Pixels 540Pan/270Tilt

52 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	255	Fine byte of Tilt
5	Pan Rotate	0	0–2 Disable 3–126 CW Fast to Slow 127–129 No Rot 130–253 CCW Slow to Fast 254–255 No Rot
6	Tilt Rotate	0	0–2 Disable 3–126 CW Fast to Slow 127–129 No Rot 130–253 CCW Slow to Fast 254–255 No Rot
7	C TO	0	

Pixels 540Pan/270Tilt (continued)

Ch	Function	Default	DMX values
8	Color Wheel	0	0–9 Open (wheel slot 1) 10–14 Red (wheel slot 2) 15–19 Red Orange (wheel slot 3) 20–24 Light Amber (wheel slot 4) 25–29 Yellow Amber (wheel slot 5) 30–34 Greenish Yellow (wheel slot 6) 35–39 Light Yellow Green (wheel slot 7) 40–44 Dark Yellow Green (wheel slot 8) 45–49 Green (wheel slot 9) 50–54 Teal (wheel slot 10) 55–59 Cyan (wheel slot 11) 60–64 Light Blue (wheel slot 12) 65–69 Aqua (wheel slot 13) 70–74 Dark Aqua (wheel slot 14) 75–79 Green Blue (wheel slot 15) 80–84 Light Lavender (wheel slot 16) 85–89 Dark Purple (wheel slot 17) 90–94 Medium Purple (wheel slot 18) 95–99 Mid Rose (wheel slot 19) 100–104 Muave (wheel slot 20) 105–109 Nice Magenta (wheel slot 21) 110–114 Warm Magenta (wheel slot 22) 115–119 Light Red (wheel slot 23) 120–124 Straw (wheel slot 24) 125–129 Dark CTB (wheel slot 25) 130–134 Light Green (wheel slot 26) 135–139 Purple (wheel slot 27) 140–144 Lighter Purple (wheel slot 28) 145–149 Pink (wheel slot 29) 150–154 Rose (wheel slot 30) 155–179 White (wheel slot 31) 180–189 CW Fast 190–200 CW Med 201–203 CW Slow 204–207 Rot Stop 208–218 CCW Slow 219–228 CCW Med 229–229 CCW Fast 230–234 Open (wheel slot 1) 235–239 Random Fast 240–244 Random Med 245–249 Random Slow 250–255 Open (wheel slot 1)
9	Shutter / Strobe	63	0–31 Shutter CLOSED 32–63 NO Function (Shutter OPEN) 64–95 Strobe Effect SLOW to FAST 96–127 NO Function (Shutter OPEN) 128–159 Pulse Effect In Sequences 160–191 NO Function (Shutter OPEN) 192–223 Random Strobe Effect SLOW to FAST 224–255 NO Function (Shutter OPEN)
10	Dimmer	0	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
11	Dimmer Fine	0	Fine byte of Dimmer

Pixels 540Pan/270Tilt (continued)

Ch	Function	Default	DMX values
12	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectual 81–100 Theater 101–120 Stage 2 121–121 0s 122–122 0_1s 123–123 0_2s 124–124 0_3s 125–125 0_4s 126–126 0_5s 127–127 0_6s 128–128 0_7s 129–129 0_8s 130–130 0_9s 131–131 1s 132–132 1_5s 133–133 2s 134–134 3s 135–135 4s 136–136 5s 137–137 6s 138–138 7s 139–139 8s 140–140 9s 141–141 10s 142–255 Idle
13	Zoom	107	0–215 Wide 216–254 Narrow 255–255 Overdrive Max
14	Zoom Fine	132	Fine byte of Zoom
15	Position MSpeed	0	0–224 Max 225–225 Min 226–235 Blackout P/T Move 236–255 Blackout All Wheel Change
16	Control1	0	
17	Color Macro1	0	
18	Color Macro1Rate	0	0–56 CW Fast 57–125 CW Med 126–126 CW Slow 127–128 Stop 129–184 CCW Slow 185–254 CCW Med 255–255 CCW Fast
19	Color Macro2	0	
20	Color Macro2Rate	0	0–56 CW Fast 57–125 CW Med 126–126 CW Slow 127–128 Stop 129–184 CCW Slow 185–254 CCW Med 255–255 CCW Fast

Pixels 540Pan/270Tilt (continued)

Ch	Function	Default	DMX values
21	Effect	0	1–1 10 Degrees Offset 2–2 20 Degrees Offset 3–3 30 Degrees Offset 4–4 40 Degrees Offset 5–5 50 Degrees Offset 6–6 60 Degrees Offset 7–7 70 Degrees Offset 8–8 80 Degrees Offset 9–9 90 Degrees Offset 10–10 100 Degrees Offset 11–11 110 Degrees Offset 12–12 120 Degrees Offset 13–13 130 Degrees Offset 14–14 140 Degrees Offset 15–15 150 Degrees Offset 16–16 160 Degrees Offset 17–17 170 Degrees Offset 18–18 180 Degrees Offset 19–19 190 Degrees Offset 20–20 200 Degrees Offset 21–21 210 Degrees Offset 22–22 220 Degrees Offset 23–23 230 Degrees Offset 24–24 240 Degrees Offset 25–25 250 Degrees Offset 26–26 260 Degrees Offset 27–27 270 Degrees Offset 28–28 280 Degrees Offset 29–29 290 Degrees Offset 30–30 300 Degrees Offset 31–31 310 Degrees Offset 32–32 320 Degrees Offset 33–33 330 Degrees Offset 34–34 340 Degrees Offset 35–35 350 Degrees Offset 36–100 Synchronized 101–120 Random Fixtures 121–140 Random Duration 141–255 Random Pixels
22	Reserved 22	0	
23	Reserved 23	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Reserved 27	0	
28	Reserved 28	0	
29	Reserved 29	0	
30	Reserved 30	0	
31	Reserved 31	0	
32	Reserved 32	0	
33	Reserved 33	0	
34	Reserved 34	0	
35	Reserved 35	0	
36	Reserved 36	0	
37	Reserved 37	0	
38	Reserved 38	0	

Pixels 540Pan/270Tilt (continued)

Ch	Function	Default	DMX values
39	Reserved 39	0	
40	Reserved 40	0	
41	Reserved 41	0	
42	Reserved 42	0	
43	Reserved 43	0	
44	Reserved 44	0	
45	Reserved 45	0	
46	Reserved 46	0	
47	Reserved 47	0	
48	Reserved 48	0	
49	Reserved 49	0	
50	Shutter / Strobe	63	0–31 Shutter CLOSED SPARKLED 32–63 NO Function (Shutter OPEN) SPARKLED 64–95 Strobe Effect SLOW to FAST SPARKLED 96–127 NO Function (Shutter OPEN) SPARKLED 128–159 Pulse Slow to Fast SPARKLED 160–191 NO Function (Shutter OPEN) SPARKLED 192–223 Rnd strob SLOW to FAST SPARKLED 224–255 NO Function (Shutter OPEN) SPARKLED
51	Dimmer	0	0–62 0 % SparkLED 63–126 25 % SparkLED 127–190 50 % SparkLED 191–254 75 % SparkLED 255–255 100 % SparkLED
52	Dimmer Fine	0	Fine byte of Dimmer